VOLUME CONTENTS

S. N. KONDEPUDI and D. L. O'NEAL	1	Performance of triangular spine fins under frost- ing conditions
D. GAUTHIER and G. FLAMANT	9	Heat recovery by perforated-plate multistage fluidized bed exchangers
M. NARODOSLAWSKY, F. WINDISCH and F. MOSER	23	New compression heat pump media for medium and high temperature application
G. S. GROVER, M. A. R. EISA and F. A. HOLLAND	33	Thermodynamic design data for absorption heat pump systems operating on water-lithium chloride—I. Cooling
D. A. REAY	43	Funding of innovative projects—tapping resources in the U.K. and Europe
J. T. McMULLAN, N. MURPHY and D. W. HUGHES	53	The effect of oil on the performance of heat pumps and refrigerators—I. Experimental test facility
	i	New Patents
	1	Software Survey Section
	Nu	mber 2
R. KUMAR	69	Estimation of solar collector area and thermal energy requirement in absorber heat recovery cycle
J. A. R. PARISE and W. G. CARTWRIGHT	75	Experimental analysis of a diesel engine driven water-to-water heat pump
PHUONG DUNG DAN and S. SRINIVASA MURTHY	87	Thermodynamic analysis data on vapour absorption heat pump working on R22-DMETEG pair
J. T. McMULLAN, N. MURPHY and D. W. HUGHES	95	The effect of oil on the performance of heat pumps and refrigerators—II. Experimental results
L. L. VASILIEV	125	Heat pipes for ground heating and cooling
S. A. TASSOU	141	Heat recovery from sewage effluent using heat pumps
S. E. ALY	149	A theoretical analysis of a solar-fuel assisted absorption power cycle (SFAPC)
W. J. KOEHLER, W. E. IBELE, J. SOLTES and E. R. WINTER	157	Availability simulation of a lithium bromide absorption heat pump

JUN DAR CHEN and SING TSU TSAI

173 Calculation of mean temperature difference of multi-tubepass crossflow type heat exchanger

Announcement

- 183 Fluid Mechanics Measurement European Conference on Recent Advances in **Heat Exchangers**
 - i New Patents
 - I Software Survey Section

R. BEST, C. L. HEARD and F. A. HOLLAND	185	Developments in geothermal energy in Mexico —Part sixteen. The potential for heat pump technology
B. J. HUANG	203	Enameled heat exchanger for heat recovery applications
Y. S. H. NAJJAR and A. M. RADHWAN	211	Cogeneration by combining gas turbine engine with organic Rankine cycle
M. NARODOSLAWSKY, G. OTTER and F. MOSER	221	Thermodynamic criteria for optimal absorption heat pump media
H. J. STRUMPF, T. L. STILLWAGON, D. M. KOTCHICK and M. G. COOMBS	235	Advanced industrial ceramic heat pipe recuperators
S. KONDEPUDI, S. SOMASUNDARAM and N. K. ANAND	247	A simplified model for the analysis of a phase- change material-based, thermal energy storage system
S. M. RANADE	255	New insights on optimal integration of heat pumps in industrial sites
H. E. S. FATH and H. H. HASHEM	265	Waste heat recovery of Dura (Iraq) oil refinery and alternative cogeneration energy plant
V. R. TARNAWSKI and P. K. YUET	271	Winter performance of residential heat pump
A. P. ROSSITER, R. V. SEETHARAM and S. M. RANADE	279	Scope for industrial heat pump applications in the United States
	i	New Patents

- I Software Survey Section

D. A. REAY	1	Editorial
A. GARCÍA, E. CONTRERAS, E. IGLESIAS and B. DOMÍNQUEZ A.	289	Developments in geothermal energy in Mexico—Part XVII. Thermal conductivity of drill cores from the Los Azufres geothermal field: experimental results and accurate prediction method
V. H. MORCOS	299	Performance of shell-and-dimpled-tube heat exchangers for waste heat recovery
D. A. REAY	309	Impact of new technologies on future heat exchanger design
S. MERCADO and H. FERNANDEZ	315	Developments in geothermal energy in Mexico—Part XVIII. History of the exploration of the Cerro Prieto geothermal field
R. S. BENIWAL, R. SINGH and D. R. CHAUDHARY	323	Experimental study of laboratory salt gradient solar pond thermal behaviour
E. L. BACKLUND and B. G. KARLSSON	333	Cogeneration versus industrial waste heat
SHOU-SHING HSIEH and DER-CHI HUANG	343	Thermal performance and pressure drop of counter-flow and parallel-flow heat-pipe heat exchangers with aligned tube rows
J. A. SAMPEDRO, N. ROSAS, R. DÍAZ and B. DOMÍNGUEZ	355	Developments in geothermal energy in Mexico—Part XIX. Corrosion in Mexican geothermal wells
R. K. CHOHAN	363	Forced convection from liquids to industrial thermometers in cross-flow
K. P. TYAGI	371	Technical Notes Cut-off temperatures of aqua-ammonia absorption refrigeration system
K. P. TYAGI	375	Design parameters of an aqua-ammonia vapour absorption refrigeration system
D. A. REAY	379	Conference Report Innovation in process energy utilisation
	i	New Patents
	xvii	Software Survey Section

N. DOUSS and F. MEUNIER	383	Effect of operating temperatures on the coefficient of performance of active carbon-methanol systems
H. E. S. FATH	393	Improvement of CANDU-1000 MW(e) power cycle by moderator heat recovery
J. M. SALA and J. G. VIAN	401	Computer program for determining optimal run- ning conditions of a steam turbine cogeneration system
J. M. SALA and J. G. VIAN	411	Optimum running conditions for a gas turbine cogeneration system
G. S. GROVER, S. DEVOTTA and F. A. HOLLAND	419	Thermodynamic design data for absorption heat pump systems operating on water-lithium chloride—Part II. Heating
G. S. GROVER, S. DEVOTTA and F. A. HOLLAND	425	Thermodynamic design data for absorption heat transformers—Part III. Operating on water—lithium chloride
Y. TSUJIKAWA and H. ASAKURA	433	Optimization of the precooler of hydrogen fueled gas turbine
P. CIAMBELLI and V. TUFANO	445	On the performance of advanced absorption heat transformers—I. The two stage configuration
P. CIAMBELLI and V. TUFANO	451	On the performance of advanced absorption heat transformers—II. The double absorption configuration
M. NARODOSLAWSKY, G. OTTER and F. MOSER	459	New working pairs for medium and high tem- perature industrial absorption heat pumps
T. SKIEPKO	469	Method of monitoring and measuring seal clear- ances in a rotary heat exchanger
A. AITTOMÄKI and M. HÄRKÖNEN	475	Modelling of zeolite/methanol absorption heat pump process
B. SUNDEN	483	Case Study Analysis of the heat recovery in two crude distillation units

- i New Patents
- iii Software Survey Section

W. M. WOREK and CHUNG-JU MOON	489	Desiccant integrated hybrid vapor-compression cooling: performance sensitivity to outdoor conditions
S. E. ALY, K. FATHALAH and H. A. GARI	503	Analysis of an integrated vapour compression and a waste heat dehumidifier A/C system
J. A. KUBIAK, A. GUTIERREZ and J. PERÉZ	529	Developments in geothermal energy in Mexico—Part XX Technical advantages and disadvantages of geothermal well-head units
D. CHAROENSUPAYA and W. M. WOREK	537	Effect of adsorbent heat and mass transfer resistances on performance of an open-cycle adiabatic desiccant cooling system
N. EĞRICAN	549	The second law analysis of absorption cooling cycles
H. A. GARI and K. A. FATHALAH	559	Modelling and simulation of a paive condensate heat pipe pumping system for solar energy applications
M. ISSA and Z. KODAH	571	On the temperature field of a solar collector hot-water storage tank
T. SKIEPKO	577	Experimental results concerning seal clearances in some rotary heat exchangers
	583	Announcement VII International Heat Pipe Conference
	585	Corrigendum
	i	New Patents
	1	Title Section, Volume Contents and Author Index

